THE MINES OF ARIZONA

This department is under the di rection of Mr. W. E. Defty, the well known mining engineer, who will carefully scrutinize all matters relating to mining in order that only reliable information regarding legitimate enterprises shall find a place here.

The Republican would be pleased to receive information from any part of the state regarding the development of the mining in-All communications should be addressed: Mining Department, Arizona Republican.

The Metal and Mining Conditions Improving Considerably

Conditions in mining generally have taken a very decided turn for the better and is already showing decided im-

The Mining and Scientific Press mines which suspended operations with the beginning of hostilities in Europe Idaho and Utah are extremely optimistic and the production of silver, lead and zinc is again almost normal, While the copper situation has not been determined, the position of zinc has been strengthened and lead and silver are in a much better position than they were

As regards silver, it is reported to have been sold in considerable quantities in New York, August 22 at 56 termined by a Lendon quotation made traction during the period the smelters August 21, the first official quotation refused shipments. since the war opened.

in Arizona matters look equally bright, as will be seen by the following letter from one of our smelter the London quotation.

American Smelting & Refining Co. Hayden Plant Hayden, Ariz.

We have the pleasure of advising you that, although London still refuses to bid for New York silver, our company

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Dog Diseases AND HOW TO FEED H. CLAY GLOVER, V. S.

me manufacturers to an extent equal

to our receipts. our sales, named at 56% per ounce.

Furthermore, beginning with receipts of August 20 and until further advised we will advance against silver shipments at the rate of 40c per ounce, under the same conditions as per our former letters.

Yours very truly, ING CO.

By J. J. Ormsby, Superintendent In addition to the above a large purchase of silver has been made for the Junction to Quartzite. coast mint. Word comes from Washington that George E. Roberts, director of the mint has bought 200,000 ounce of silver for immediate delivery at the San Francisco mint. The price was of the high grade ore short encount-53.1 cents an ounce.

In Arizona properties that tempo rarily closed down, are again resuming of market conditions many of the operations. The Commonwealth at Pearce is operating again after a clos down of 3 weeks, the improvement in are again producing. Reports from tion of operations. The company put the old force back as work in the mil and mine, and all operations are proceeding and normal conditions resumed as previous to the suspension of work

property are now beginning to ship quite a large tonnage of ore, after the announcement that the smelters were again prepared to accept ore for treat ment. The leasors have accumulated a large quantity of ore for shipment cents per ounce, that price being de- for the uninterruptedly continued ex-

Referring to the coppers, the condithe improve. They are all holding their reduced forces at least, and some panies written a day previous to of them are gradually taking back London quotation. the day and night shifts in the mine have been increased and also additions to the surface force have been made, of course the latter is moinly on | not be better and the concentrator | constructive work. At other properties where the forces have only been work ing half time, the working days have been increased at last for a part of the The early movement of the red metal to Europe, which is anticipated, will also be an important factor in strengthening and improving the situation. So weighing all the conditions together, we have in Arizona considerable to be thankful for. We are not nearly so badly off as some other tates and other parts of the world.

> It is reported that machinery is being uled in and installed for the working

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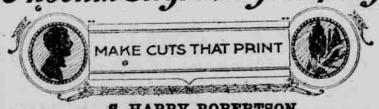
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around this district. As the water the government gets half of what he supply is limited, the machines will operate as dry washers or concentrators. The area is well known and has been dand dry washed for over 50 years has been fortunate in making sales to and a large quantity of gold extracted. certain foreign governments and to The fact of the gold being there is unquestioned, the success of the enterprise rests upon its extraction by this Therefore, we will settle in full for new adopted dry process and we sinall silver received August 12th to 19th cerely trust the test will exceed all for that part of the country for it has been in a semi-dormant condition for some years. A revival would make the mineral rod on behalf of the governdistrict look like old times, when it used to be busy with quartz and placer mines. It was then known as Tyson's Wells. The country is meritorious and will sooner or later come by its own. AMERICAN SMELTING & MIN- The country has suffered considerably by fake propositions one of these had the parts of a 60 stamp mill strewn asylum for the feeble minded.) right across the desert from Congress

Magma Mine

mine recently, is simply a continuation tiful in appearance and wonderful in Work was suspended on this level were proven, after the completion of thing you know. this work, shaft sinking was resumed and continued to a depth of 1000 feet where it is proven that this large and rich ore body still continues. Down The 200 level is an adit 500 long, all through this working, instead of from

tion on the hill side. The new concentrator now treating 500 tons of ore per day was erected to treat the ores from the disseminated area and the fines from the shipping \$2.6617. ore. The conditions in the mine working very successfully.

situated in rather an awkward posi-

William Windsor, who owns four laims close to town, and which adoins the Lake Superior & Arizona property on the south, reports be has laims and is extracting it for ship-

In Democratic Times (Chicago News:) Agitated Stock older: Why haven't you declated the egular quarterly dividend? Director; We couldn't borrow the

'Mineral Rods" Declared Fakes is and useful minerals may be found the ground by means of mineral is a question frequently asked. latest question of this sort came Ma., who states that a man from Birmigham has one of these rods for loting minerals, that he claims to be uployed by the government and that

Flagstaff, Ariz.

| Points of Interest Near Flagstaff |
|--------------------------------------|
| Grand Canyon65 miles |
| Extinct volcanges18 miles |
| Lava beds |
| Ice caves |
| Prehistoric cliff dwellings.10 miles |
| Cave dwellings10 miles |
| Oak Creek trout stream 18 miles |
| Montezuma's well 50 miles |
| San Francisco peaks12 miles |
| Elevation 13,900 feet.) |
| Altitude of Fiagstaff 6907 feet |
| Prehistoric ruina35 miles |
| Natural Bridge75 miles |

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This expert mineral finders name is stated to be Wise, which may respondent is that while an ordinary compass, or "dip needle" will be atbalt, which are magnetic, it will be efnclusive at the New York average of expectations success will mean much fected by no other metals or minerals, and that so-called mineral rods are

> (Additional advice to this should be given. The party believing in such takes, should also be handed over to anogen compounds were made was the police or passed upon by the competent authority for graduation to the mal matter at a red heat, together

Owning All the Copper

Anent the drivel that was printed in ast weeks papers about the state The much reported rich strike in this owning all the copper. It would be scrap leather and the competition of nine recently, is simply a continuation something like the fellow who made synthetic cyanides have relegated himself very objectionable on board the red in the upper wokings and which small sailing vessel. The rest on board onsists of harnite, chalcocite and to show their disapproval and after atmospheric nitrogen, by synthesis chalcopyrites, the ore is certainly beau- careful deliberation, told the offender they had decided to present him with the entire ocean and threw him overfoot level of the mine, this rich ore board, eventually he was picked up body was said to be 3 sets of timbers greatly exhausted by a fishing smack. wide, with scarcely a seam of waste in And on recovery of his breath and have been applied for during the last geneal composure, he remarked "I fully 20 years relating to the preparation appreciated the honor conferred upon of cyanides from carbides, from inor some time, pending a thorough appreciated the honor conferred upon testing of the ground in all directions me by the presentation of that deep trides, etc. by diamond drill holes and it is said and wonderful expanse of water, but,

Alaska Treadwell

The 1913 report of the Alaska Tread-886,057 tons of ore, yielding an average amounting to amounting to \$1,000,000 were paid. As will be observed by the above the actual yield per ton of ore, was only

Gypsum

In 1913 the amount of raw gypsum nined in the United States was close

Arizona Copper The Arizona Copper company made an output of 3,300,000 pounds of copstruck a body of high grade ore on his per in July which compares with 2,600,000 pounds in July last year For the seven months the output was 23,524,000 pounds against 20,800,000

> High Cost of Ignorance Platinum today is about the most precious metal that the ordinary ci-Weight for weight, principles. He said I reminded him of s is two and one-quarter times as valuable as gold. In the days when Pizarro's conquistadores were racing through South America looking for jack, and so he said to him: gold and silver and for slaves to none the same, platinum was worth just nothing at all. Which has led to rather amusing results. Gold and platinum are found together in the sands of the Nagua and Atrato rivers in the western part of the Republic of Colombia. These placer mines have been worked since before the the gold was saved and the platinur

Spanish conquest and for centuries thrown away. A metal like iron peared, but platinum endures. Mining companies are looking for it this moment in the dumps where it was town among these ancient "diggings" the earth excavated for a foundation has yielded enough platinum to pay for the building.

What a building boom there would be in an American city under such conditions! The same story-minus the reward for digging cellars-can be told of many places. Metallurgists of today estimate that one third of the gold and silver of the great Comstock lode was scattered n waste over the Nevada deserts. Silver has been mined at Laurelon near Athens, for 2500 years, the most profitable branch of the business in vecent times has been mined at Laurion, near Athens. waste attending the opening of early ii wells and gas wells is known to

Cal. Mine Output 26,812,489

SAN FRANCISCO, Aug. 25.—The value of the recoverable gold, silver, copper, lead and zinc produced in the mines of California in 1913 was \$26,-812,489, compared with \$26,383,946 in 1912 and \$25,174,677 in 1911, according to an announcement made today by Charles G. Yale of the United States Geological Survey.

Except in zinc there was an inrease in the output of all these metals. The output of gold was the largest in thirty-one years, totalling \$20,406,958. Only three times in forty-nine years has the gold output exceeded \$20,000,000,

Cyanide to Be Manufactured in the United States

(By Baseres De Alzugaray) The stoppage of the foreign supply cyanide and cyanogen compounds creates a serious situation, not only or the mining industries (extraction gold and silver), but also for many ther electrical and chemical trades using cyanide. The means to meet this temporary difficulty can be easily devised. The raw materials from which cyanogen and its compounds are prepared are abundantly ormed in our country. This source of raw products are many and will be briefly reviewed.

A considerable quantity of cyanides escapes from the blast furnaces, as fumes and flue dust, from which large amounts of potassium cyanide can be recovered by methods analagous to those in practice to purify coal gas, cyanide is produced not only in iron blast furnaces, but also and in large quantities in copper and lead furnaces and in a general way in any metallurgical apparatus wherever the nitrogen of the blast acts on hot carbon mixed with alkalies. Fumes and gases issuing from these producers can be condensed

and the cyanide contents separated

In the purification of coal gas by ydrated iron oxide, large amounts of cyanide are continually obtained; this has been an old-time source of

extension of the by-product coke ovens, replacing the wasteful bee-hive ovens, constitute an abundnt source of nitrogen products from which large quantities of cyanides can be obtained. The beet sugar industry is another

well known source of cyanide which ment is an imposter and should be let its obtained as one of the by-products severely alone or reported to the police. by the treatment of residue vinasse. ferro cyannide from which other cyobtained by fusion of dry refuse aniwith potassium carbonate and iron filings. About 2,000 tons of cyanides were yearly produced by this me-

The scarcity of hoofs, horns and

Cyanides can also be made from between carbon disulphide and amby ammonia, charcoal and

aikali and from sulphocyanides. There are several hundred patents (many of them in operation) which

The enumeration of the more pracxtensive disseminated copper areas I cannot do anything with the devilish tical methods for the preparation of cyanides by these various methods would be too long. Those brief notes, show plainly the abundance of materials which we have within ou well Gold Mining company, Douglas reach, to create an independent na to the 800 foot, the property had fine Island, Alaska, shows a net operating tional industry, which could not only evels, viz. 200, 400, 500, 650 and 800, profit for the year of \$1 223,438 from produce all the cyanide required to supply our home industries, but also ingres and egress to the mine is made of \$2.6617 or a total of \$2,358,423 and to reverse our former trading pracmiscellaneous profits of \$69,592. This tice of importing cyanides by be tions at the properties are certainly on the collar of the shaft, as the latter is profit is exclusive of depreciation of coming exporters of our excess of property and plant charged off production to other sections of our \$400,207. Dividends continent, to Australasia, South Afri and to the eastern gold producing

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And reading on Alphonse dried up -Los Angeles Express.

BROAD Shelly Cullom," said a Springfield eteran, "was a bad man to argue with, "I argued with him once on war. He ccused me of being weakened in my

"He saw Cal rolling along home one vening, he explained, full of apple-

Why, Cal, you told me once that ' 'So Ah is, Mars Shelby,' said old ('al, 'so Ah is; only, sah, Ah ain't big-oted," "-New York Tribune,



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